

FIG. 1A

1	GCACGAGGCCAAACAGATTTCAGATCAAGGAGAACCCAGAGTTTCAAGAAGCGCTAG	10	30	50	60
61	TAAGTCTCTGAGATCCTTGACTAGTACATCCTCAGGGTAGGAGGAAGATGGCTTCCA	70	90	110	120
121	GAAGCATCGCGCTGCTCTATTGCTGAGCTGCCCTGGCCAAACAGGAGTCCCTGGTGATA	130	150	170	180
181	TCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTACCACAAGTCCCAATTGCTATGTT	190	210	230	240
241	ACTTCAGGAAGCTGAGGAAGTGGTCTGATGCCGAGCTCGAGTGTCAGTCTTACGGAAACG	250	270	290	300
301	GAGCCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAA	310	330	350	360
361	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	370	390	410	420
421	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	430	450	470	480
481	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	490	510	530	540
541	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	550	570	590	600
601	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	610	630	650	660
661	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	670	690	710	720
721	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	730	750	770	780
781	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	790	810	830	840
841	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	850	870	890	900
901	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	910	930	950	960
961	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	970	990	1010	1020
1021	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1030	1050	1070	1080
1081	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1090	1110	1130	1140
1141	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1150	1170	1190	1200
1201	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1210	1230	1250	1260
1261	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1270	1290	1310	1320
1321	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1330	1350	1370	1380
1381	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1390	1410	1430	1440
1441	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1450	1470	1490	1500
1501	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1510	1530	1550	1560
1561	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1570	1590	1610	1620
1621	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1630	1650	1670	1680
1681	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1690	1710	1730	1740
1741	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1750	1770	1790	1800
1801	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1810	1830	1850	1860
1861	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1870	1890	1910	1920
1921	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1930	1950	1970	1980
1981	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	1990	2010	2030	2040
2041	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2050	2070	2090	2100
2101	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2110	2130	2150	2160
2161	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2170	2190	2210	2220
2221	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2230	2250	2270	2280
2281	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2290	2310	2330	2340
2341	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2350	2370	2390	2400
2401	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2410	2430	2450	2460
2461	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2470	2490	2510	2520
2521	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2530	2550	2570	2580
2581	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2590	2610	2630	2640
2641	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2650	2670	2690	2700
2701	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2710	2730	2750	2760
2761	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2770	2790	2810	2820
2821	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2830	2850	2870	2880
2881	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2890	2910	2930	2940
2941	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	2950	2970	2990	3000
3001	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3010	3030	3050	3060
3061	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3070	3090	3110	3120
3121	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3130	3150	3170	3180
3181	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3190	3210	3230	3240
3241	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3250	3270	3290	3300
3301	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3310	3330	3350	3360
3361	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3370	3390	3410	3420
3421	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3430	3450	3470	3480
3481	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3490	3510	3530	3540
3541	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3550	3570	3590	3600
3601	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3610	3630	3650	3660
3661	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3670	3690	3710	3720
3721	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3730	3750	3770	3780
3781	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3790	3810	3830	3840
3841	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3850	3870	3890	3900
3901	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3910	3930	3950	3960
3961	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	3970	3990	4010	4020
4021	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4030	4050	4070	4080
4081	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4090	4110	4130	4140
4141	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4150	4170	4190	4200
4201	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4210	4230	4250	4260
4261	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4270	4290	4310	4320
4321	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4330	4350	4370	4380
4381	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4390	4410	4430	4440
4441	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4450	4470	4490	4500
4501	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4510	4530	4550	4560
4561	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4570	4590	4610	4620
4621	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4630	4650	4670	4680
4681	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4690	4710	4730	4740
4741	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4750	4770	4790	4800
4801	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4810	4830	4850	4860
4861	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4870	4890	4910	4920
4921	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4930	4950	4970	4980
4981	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	4990	5010	5030	5040
5041	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5050	5070	5090	5100
5101	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5110	5130	5150	5160
5161	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5170	5190	5210	5220
5221	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5230	5250	5270	5280
5281	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5290	5310	5330	5340
5341	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5350	5370	5390	5400
5401	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5410	5430	5450	5460
5461	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5470	5490	5510	5520
5521	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5530	5550	5570	5580
5581	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5590	5610	5630	5640
5641	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5650	5670	5690	5700
5701	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5710	5730	5750	5760
5761	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5770	5790	5810	5820
5821	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5830	5850	5870	5880
5881	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5890	5910	5930	5940
5941	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	5950	5970	5990	6000
6001	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6010	6030	6050	6060
6061	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6070	6090	6110	6120
6121	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6130	6150	6170	6180
6181	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6190	6210	6230	6240
6241	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6250	6270	6290	6300
6301	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6310	6330	6350	6360
6361	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6370	6390	6410	6420
6421	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6430	6450	6470	6480
6481	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6490	6510	6530	6540
6541	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6550	6570	6590	6600
6601	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6610	6630	6650	6660
6661	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6670	6690	6710	6720
6721	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6730	6750	6770	6780
6781	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6790	6810	6830	6840
6841	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6850	6870	6890	6900
6901	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6910	6930	6950	6960
6961	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	6970	6990	7010	7020
7021	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7030	7050	7070	7080
7081	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7090	7110	7130	7140
7141	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7150	7170	7190	7200
7201	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7210	7230	7250	7260
7261	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7270	7290	7310	7320
7321	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7330	7350	7370	7380
7381	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7390	7410	7430	7440
7441	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7450	7470	7490	7500
7501	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7510	7530	7550	7560
7561	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7570	7590	7610	7620
7621	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7630	7650	7670	7680
7681	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7690	7710	7730	7740
7741	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7750	7770	7790	7800
7801	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7810	7830	7850	7860
7861	GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG	7870	7890	7910	

FIG. 1B

	430	450	470	
421	AGTGGCAGTGGATTGATGGGGCCATGTATCTGTACAGATCCTGTCTGGCAAGTCCATGG			480
105	W Q W I D G A M Y L Y R S W S G K S M G			124
	490	510	530	
481	GTGGACAAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTAACTTGGAGCAGCA			540
125	G N K H C A E M S S N N N F L T W S S N			144
	550	570	590	
541	ACGAATGCAACAAGCGCCAAACACTTCCTGTGCAAGTACCGACCATAGAGCAAGAATCAAG			600
145	E C N K R Q H F L C K Y R P *			164
	610	630	650	
601	ATTCTGCTAACTCCTGCACAGCCCCGTCTCTTCTCTTCTGTAGCCTGGCTAAATCTGC			660
	670	690	710	
661	TCATTATTTCAGAGGGGAACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGC			720
	730	750	770	
721	TTTTTAGGCTTAGAGACAGAACTTTAGCAATTGGCCAGTAGTGCTTCTAGCTCTAAA			780
	790	810	830	
781	TGTTGGCCCGCCATCCCTTTCACAGATCCTTCTTCCCTCCTCCCTGTCTCTGGCTG			840

FIG. 1C

841	TCTCGAGCAGTCTAGAGAGTGCATCTCCAGCCTATGAACACAGCTGGGTCTTTGGCCATA	850	870	890	900
901	AGAAGTAAAGATTGGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCTAGACCCCTTCA	910	930	950	960
961	GCTTCTACACCCCTTCTGCCCTCTCTCCATTGCCCTGCACCCCCACCCCACTCACTCC	970	990	1010	1020
1021	TGCTTGTTTTTCCTTTGGCCATAGGAAGTTTACCAGTAGAATCCTTGCTAGGTTGATGT	1030	1050	1070	1080
1081	GGGCCATACATTCTTTAATAAACCATTGTGTAC	1090	1110	1114	